	Application No.	Applicant(s)		
Notice of Allowability	09/670,049	MILLER ET AL.	III I ER ET AI	
	Examiner	Art Unit		
	Joseph F Murphy	1646		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not include n will be mailed in due o	d course. THIS	
1. This communication is responsive to the amendment filed	10/2 <u>4/2003</u> .			
2. The allowed claim(s) is/are 47-54 renumbered as 1-8.				
3. The drawings filed on are accepted by the Examine	r.			
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ A!! b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).			
 Certified copies of the priority documents have 	been received.			
2. Certified copies of the priority documents have	been received in Application No	·		
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	cuments have been received in this	national stage applicat	on from the	
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specifical	nder 35 U.S.C. § 119(e) (to a provis ation or in an Application Data Shee	ional application) since t. 37 CFR 1.78.	a specific	
(a) The translation of the foreign language provisional a				
6. Acknowledgment is made of a claim for domestic priority up in the first sentence of the specification or in an Application		ince a specific referenc	e was included	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply c this application. THIS THREE-MO	omplying with the requi	rements noted EXTENDABLE	
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
 8. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No. 		-948) attached		
(b) \square including changes required by the proposed drawing c	orrection filed, which has be	een approved by the Ex	aminer.	
(c) including changes required by the attached Examiner's	s Amendment / Comment or in the 0	Office action of Paper N	o	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi he margin according to 37 CFR 1.121	ings in the front (not the (d).	back) of	
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T			ote the	
Attachment(s)				
1 Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	atent Application (PTO-	152)	
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Summary	(PTO-413), Paper No. <u>0</u>	<u>2112004</u> .	
3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 12092002	3), 7⊠ Examiner's Amendm	nent/Comment		
4 Examiner's Comment Regarding Requirement for Deposit	8☐ Examiner's Stateme	nt of Reasons for Allow	ance	
of Biological Material	9☐ Other .			
J				

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kristina Bieker-Brady and Michael Belloveau on 2/11/2004.

The application has been amended as follows:

In the claims:

- 47. (Previously presented) A method of producing a population of at least ten cells, wherein at least 30% of the cells are multipotent stem cells substantially purified from skin or tongue tissue of a postnatal mammal or progeny of said multipotent stem cells, wherein said multipotent stem cells are self-renewing, form non-adherent clusters, express nestin, and can differentiate into neuronal and mesodermal cell types, said method comprising the steps of:
- (a) providing skin or tongue tissue from said mammal;
- (b) culturing said skin or tongue tissue under conditions comprising bFGF, EGF or $TGF\alpha$ in which multipotent stem cells proliferate and in which at least 25% of the cells that are not multipotent stem cells die or attach to the culture substrate; and
- (c) continuing culture step (b) until at least 30% of the cells are multipotent stem cells which are self renewing, form non-adherent clusters, express nestin and can differentiate into neuronal and mesodermal cell types, or progeny of said multipotent stem cells.

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48. (Previously presented) A method of producing a population of at least ten cells, wherein at least 30% of the cells are multipotent stem cells substantially purified from skin or tongue tissue of a postnatal mammal or progeny of said multipotent stem cells, wherein said multipotent stem cells are self-renewing, form non-adherent clusters, express nestin, and can differentiate into neuronal and mesodermal cell types, said method comprising the steps of:

- (a) providing skin or tongue tissue from said mammal;
- (b) culturing said skin or tongue tissue under conditions comprising bFGF, EGF or TGF α in which multipotent stem cells proliferate and in which at least 25% of the cells that are not multipotent stem cells die or attach to the culture substrate;
- (c) separating said multipotent stem cells from said cells that attach to said culture substrate; and
- (d) repeating steps (b) and (c) until at least 30% of the cells are multipotent stem cells which are self renewing, form non-adherent clusters, express nestin, and can differentiate into neuronal and mesodermal cell types, or progeny of said multipotent stem cells.

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph F. Murphy whose telephone number is 703-305-7245. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 703-308-6564. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Joseph F. Murphy, Ph. D.

Patent Examiner Art Unit 1646 February 12, 2004

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

Art Unit: 1646

EXAMINER'S AMENDMENT

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Authorization for this examiner's amendment was given in a telephone interview with Kristina Bieker-Brady and Michael Belloveau on 2/11/2004.

The application has been amended as follows:

In the claims:

A7. (Previously presented) A method of producing a population of at least ten cells, wherein at least 30% of the cells are multipotent stem cells substantially purified from skin or tongue tissue of a postnatal mammal or progeny of said multipotent stem cells, wherein said multipotent stem cells are self-renewing, form non-adherent clusters, express nestin, and can differentiate into neuronal and mesodermal cell types, said method comprising the steps of:

- (a) providing skin or tongue tissue from said mammal;
- (b) culturing said skin or tongue tissue under conditions <u>comprising bFGF</u>, <u>EGF or TGF α </u> in which multipotent stem cells proliferate and in which at least 25% of the cells that are not multipotent stem cells die or attach to the culture substrate; and
- (c) continuing culture step (b) until at least 30% of the cells are multipotent stem cells which are self renewing, form non-adherent clusters, express nestin and can differentiate into neuronal and mesodermal cell types, or progeny of said multipotent stem cells.

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48. (Previously presented) A method of producing a population of at least ten cells, wherein at least 30% of the cells are multipotent stem cells substantially purified from skin or tongue tissue of a postnatal mammal or progeny of said multipotent stem cells, wherein said multipotent stem cells are self-renewing, form non-adherent clusters, express nestin, and can differentiate into neuronal and mesodermal cell types, said method comprising the steps of:

- (a) providing skin or tongue tissue from said mammal;
- (b) culturing said skin or tongue tissue under conditions comprising bFGF, EGF or $TGF\alpha$ in which multipotent stem cells proliferate and in which at least 25% of the cells that are not multipotent stem cells die or attach to the culture substrate;
- (c) separating said multipotent stem cells from said cells that attach to said culture substrate; and
- (d) repeating steps (b) and (c) until at least 30% of the cells are multipotent stem cells which are self renewing, form non-adherent clusters, express nestin, and can differentiate into neuronal and mesodermal cell types, or progeny of said multipotent stem cells.

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Joseph F. Murphy, Ph. D.

Patent Examiner Art Unit 1646 February 12, 2004

YYONNE EYLER, PM.D SUPERVISORY PATENT EXAMINAR TECHNOLOGY CENTER 1602